



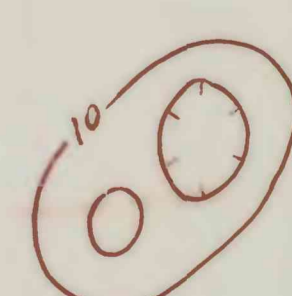
Albers conic equal-area projection
with standard parallels of 29 1/2° N
and 45 1/2° N.

PLATE 2. BOUGUER GRAVITY MAP OF THE NORTHEASTERN UNITED STATES AND ADJACENT CANADA

- WESTERN PART

EXPLANATION

Contours of Bouguer anomaly values
drawn by computer from a 2.5 km by
2.5 km gridded representation of the
data.
Contour interval is 5 milligals.
Hachures are used to indicate
gravity lows.



Anomalies were calculated relative to the 1967 Geodetic
Reference System formula for theoretical gravity (Internat-
ional Association of Geodesy, 1973), and base values were
adjusted to conform to the International Gravity Standard-
ization Net of 1971 (Morelli, 1976). Terrain corrections
have been calculated from 0.895 km to 166.7 km using a
modification of the terrain correction program of Flouff
(1977). No terrain corrections have been applied for the
zones closer than 0.895 km, but in most cases errors
resulting from this omission are substantially less than
1.0 mgal.

REFERENCES CITED

International Association of Geodesy, 1973, Geodetic
Reference System 1967: International Association of
Geodesy Special Publication, no. 3, 116 p.
Morelli, C., (ed.), 1976, The International Gravity
Standardization Net 1971: International Association
of Geodesy Special Publication, no. 4, 195 p.
Flouff, D., 1977, Preliminary documentation for a FORTRAN
program to compute gravity terrain corrections based
on topography digitized on a geographic grid: U.S.
Geological Survey Open-File Report 77-535, 45 p.

SCALE 1:1,000,000

